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People's Chart

GON Contents

Dragon week and that was -- 6809 Conrienals. Communication Dragonsoft At last - Moon Creste ... Few Coales

raves about this new release - Park

Programming Ever puzzled by those sudden crashes? Pain D'Arcs explains who this sometimes Dragon Answers

Questions, questions ... Brian Cedge once again stretches his might and comes Book Offer A Super Summer Book Other that will have

Arcade Arena The mysterious Expert mumbles on in-Adventure Trail

26

Editorial - indeed Dranon users all over the country. As from next issue

Published by Surehine Books, Sox Press (Auly 1986) Dragon User will be available to the Dragon community
BY SUBSCRIPTION ONLY. And while this means that you won't

how a sub So why do 27?

have to trundle down to the newsagent to get your favourite read (we'll send it to you). It does mean forking out just over a tenner in one month, in order to get the next 12 issues, if you don't already It's our firm belief that Dragon User is still essential reading for

all Dragon owners, beginners and experienced allor. Wr'll still have all the same regular features, news and reviews, with new ones planned even as I write! In fact, as a controlled circulation publication, we're hoping to pack even more in then usual - a new

upgrading series, new languages for your Dragon, teach-in's, mader offers, competitions - we are determined to nowide you with the service and information you want for your computer. Take the Rook Offer in this month's issue . . . where else could you get so much for so little? As the number of active Dragon owners has diminished (and there's no derwing that the total is down to the few tens of thousands) it seems to us that the enthusiasm of the existing Users has actually increased ... and it's neonle like you we are committed

to supporting in the future. It would be a shame if many Dranons (still a worthwhile piece the lack of information and a mouter national managine. No Dragge

Letters Order a secondary had some to 5-100 MM MILE POST 2 018 179 beads high after such a Co-Co 14 Redeced Direct Club I WOLLD like to start up a Poke Flee Error Flaw? IN the April 1996 issue of gone right or left justified -Dragon Liter, Brian Cadge admin congress in about 13 hours long. The problem is. F015 500 Should the two Dragons be program, and it was remark Fringe Co-Co. Danny, you'll need aspects or the Unigon and the 5009 microprocessor that it is letter has been written using May review ... indeed Disk-Upgrade deserved to Hunter Co-Co Now some on -- there mus I find the only was to obtain

Dragon User People's Chart Results April 1986

Don't forget — each month we are asking.

Eddie Steady Go.....





News desk Dragon

Aid Tape deserve a chance," he com-

Chris is aiming at 5-13 titles Serve, progrietar of CR

and the Of the Mark ren-

Dragon reekend

6500 computing Those devotess of the 6809 ● Diagon Oher has already . If there are any core-

Chris was quick to empha

licro Vision traffic on the crists it was free

ECCLOSING the success of

ploration of a castle (and the For more details, century Moro Vision at 8 Werster

Preview rai mater used by Hyper-

snoovered a sleeping Time If was then that they called on this Time I and a remetion

Prey carefully erected the evallable from inpentive by the

Peaksoft Dragon AS A sensine to the fact growing number of Dragon

— page 323000191 onwards The firm are also compiling a directory of Dragon owners who use the sense to help

Mid ... sounds like some-

Communication : Enquirer Yorkin Greises, 9 Knosou St. Gates 11145 Problem I hour

Brokken I would be very hap-

punchased a TRS-80 CGP-111

Enquirer C Carry, 57 East

Problem Warred - Super Dragon Writer & Cartridge or

Enquirer Starry Caruth, 130 Problem Dragon owners in the Gospot area — Lown a Dry.

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June 1986 Dragon User

Dragonsoft Arcade Hit

Editor

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Supplier MacGowan Consul-

ded at at at

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June 1898 Dragon User 11

laws

Just when you thought it was safe to go back to the keyboard... arcade action from Steve Gatheroole

BANCONT roughed as a soubs diver our linish at, then when you get the specified lest time as you start address. CSEATM WERE 20000 N 20000 where

COMMISSION OF THE SECOND

. He is never that simple and

The game is in PMCOS 4, uses bit

First type in LISTING 1 this is the ERTING 2. Press CATER.

20 REM HEXLONGER - ENTEN THE DO REM STRING OF HEX DISITS FIRST 40 RDM AND THEN THE CHECKSUM 60 PRINT'ENTER STORT GOODERST -- IND

70 PRINT'ENTER FINISH ADDRESS"; : IN 118 FOR G=1 TO LENGAR STEP 2

120 P=VAL ("SH"+HID# (A#, 6, 2))

170 IF TO CHEXICATE THEN SOUND 20

, 30: PRINT'ERROR - ENTER LINE AGAIN

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28792 E117006F1703F5067FB701 = 433

29441 A0A700100C73FA26F60E04 = 57E 29452 25100E73FA86A00700100C = 539

20156 FC398E600A301FBF6DBAGC = 578 29485 FF2517FF208F608C188E84 - 4C6 38167 00012204102702F9F6607E = 33A 29496 68100F606316997MBC608E = 451 38178 C1881827FC071682853436 = 482 29507 251A17FEE617FEF517FEFC = 655 38109 BE6079188E60988685C61F = 407 29510 17FF038F608E100E04AB10 = 438 30200 17FA353088E08F6D795C00 = 517 29529 RF4063160058BC60901025 = 366 20211 S022068E164FBF6D79100E = 20E 29540 001717FEC517FED917FED9 = 5C0 30222 6ESF17FA1017002F350634 = 260 9551 RF4D90100E04ED10DF6D63 = 4FF 30233 366E6078100E60900605C6 = 400 29562 1600308C6092251317FEA9 = 985 20294 1F17F0003000200F60789C = 493 29572 17FE888F6092100D052A10 = 968 20255 163625068E00090F607B10 = 381 29594 RF40632925806094251917 + 300 30266 REAESE17F9F017004C3506 = 909 29595 PETITED THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS 39277 34368E607939999FC69766 = 518 29606 A06320100C60962508100F + 39295 84010026002000205624F9 = 29617 9560190F60626F609617FF + 526 38299 39060E6079109E60988665 + 980 29628 ABBERSE718967365066807 + 680 38318 CALF17F9C50E164F8F6079 + 552 30321 C6060E001EBF608017FF21 = 678 30332 201F17FRSC562WF2RF4DRG = 6EA 29661 17000217FC4F20F2010E0F = 201 30343 3000236F608620CC363MRF = 645 29672 5048955260479F6060596F = 389 20259 6078200000FC66664500100 = 466 29682 9569989117136992192913 = 196 30365 26093099205A26F43506DE = 423 29694 1405160520070114090512 = 8F 30376 6078100060708605061F17 = 412 29785 838F8C850E84889F883836 = 246 30307 F9789E00898F607BC60ADE = SC8 30398 003C8F6D8017FED7301F17 = 436 29727 A7005A26F7170176358634 = 440 20409 F8125A26F28E60GA20GB23 + SeF 29738 3686FF230A6087FF238E66 * 567 20420 BF6DBA20CC3436109E0004 + 3AE 29749 0106FDD7FF200D167FFF20 = 70D 30431 0E1C77C607A60443A78430 = 4D6 29768 SD1138818C00FE25E086FF + 528 38642 815A26F63888198C107025 = 393 29771 2384F787FF2305061F1231 = 408 38453 EC17FD38313F188Ceeee26 = 362 38464 DEF6607E96883DC36F841F - 55F 29793 270F808060100260817F0 + 369 38475 020E1C709609C61F17F91A = 3C6 29984 4796818760763586343686 = 473 38486 3586343613C68886811CFE = 389 30497 RE606F300317FE60301F17 = 363 29826 6069100E60999E60678603 = 498 30500 FE66301F17FE61301F17FE = 46D 29837 FA2017FD9235063836864D + 502 30519 5C301F17FE579A26DF8E6D + 491 29848 7001012722109E60988FAD + 917 36530 6F3088208F606F5A260136 = 463 29859 600605C61F17FRRSBRD97WF = 954 30541 R9FEC08F606FF66D755AF7 = 708 29070 F60116C19F2502CAMF8620 + A76 00552 60752616C600F76D75RE6D = 4FB 29001 00C0095EF0606D39863036 = 690 29092 F66070C101271CWF606010 = AGE 30574 711782EADF6D6F35863436 = 964 29992 SEAFSFRANCELE LITERATOR - ARC MANUEL FAMO/710112251985/ADMF38 = 900 29914 01876070C600F760745FF7 = 596 30596 1F100E6EC49600C62017FB = 678 29925 607F3586343613C6651CFE = 435 38687 01350686F587FFC387FFC5 = 040 29936 BE606017009E301F170099 = 340 38610 B7FFC786FF22898789F087 = 210 38629 FF228E86864FA788GC1E88 + 365 20640 26F88E0500C62006FFA780 = 549 79969 5AF760742656C688F76074 = 554 39651 5826F839889498C996925EF = 478 79900 F6607F5CF7607FC1192511 * 531 39662 188E60F70E964B9660C628 = 456 79991 SFF7607FF76070F6607E5A = 656 38673 17F05e3ee231A81A1e8C6E = 38E 30002 F7607E1701A18E6060301F + 982 30684 SF26EDE1C29C62986FFA7 - 54F 30695 805A26F930GB40GC10E125 = 4A0 30029 22258E6060100E60999665 + sen 30766 EF100E6F049E1C628688C6 + 530 20025 CATETYPAD030000400CTASE + ACE 39717 1F17F02F30913128108C6F = 2F2 25833988C00F606010966E + 445 30728 FC26EF8E1C77108E6FFC17 - 552 38857 NF17FAC335968E6060188F = NSA 38739 F01B31283881188C782426 * 2F3 30068 60988665C61F17FAR33988 = 4F1 38758 F2189E6F848E1C6817F987 - 4AC 38761 38819C1C6E26F6188E6F9C = 48C 30090 60100E6E5F17F09F20D934 = ADA 30772 SE1C7017F7F68E80A00F60 + 595 30703 6BRE12800F60650E164FBF = 4CE 30794 6D798E00898F6D7BC604F7 = 59B 30123 F007FF2000167FFF200011 = 502 36685 AD72C660F76D754F876D73 = 5AC 30134 30019C6D0027WDB6FF2300 = 540 30916 8760780760718760778760 = NEW

30027 7607606907607007607FF = NDS

29474 1017/F0017FF1717/FF1E17 = 303

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21199 699694B76D724FB76D76B7 = 529 21201 6071876077876078F6607E + 5F6 15100E6020B665C61E17E5 = 420 31322 358634368E60683891CAMS + 3F7 31410 200E60600605C61F17F573 = 510 21422 SE1C7D8608C61F17F55E17 = 418

DANTI REGUGARDERGARDERGO - 586 38893 8217F7C317F8A617F83417 = 565

38989 FRB617F78717FR9617F828 = 650

38915 17FBAE17FBCB17FBF617FC = 689

30992 0117F71017F8128FAD6530 + 003 31819 CA2817F71A8A3217FCAD9A = 979

Changing bases

Part Four of our machine code series - this month Jason Orbaum looks at Numerolook There's a very good

Ther's all right," he said, "I used it to

Suffice is to say that Geoffwy is now

Numbers

The base numerology lesson runs thus 2) We therefore have ten digits (save to

His can see that to write ten to the cover 4) Any number can be written in word.

Demo

Take this number: 1150305129, it can be

Pers: 1150005129-1.10*+1.10*+6.10*+ 9.10°+5.10°+9.10°+5.10°+1.10°+2.10 It is arousble which of the word descrip-

eight. The base eight system (knows as Et: Eight to the zero: 1

> at Flore squared: 1.0.0+64 at Power to the four 1.8.8.8.8 - green Eight to the rour: 1.8.8.8.6 - 4,90
> Eight to the five: 1.8.8.8.8 - 32766

which again is a number too big to be 7) Any number in octal can be written these are the ways the number can be substant represents the base can be written as "One two base eight", or "One

Conversions from Binary to Decimal Pick a number. Any number. Say 11010110 binary.

The revers of two are 1.2.4.8.16.32.64.125 and so on, so it becomes turn

The principle here is the same as for binary, except that we are using \$9C = (9 × 16')+(12 × 10') = 144 + 12 = 156

of eight in the flow. Seven in so delights one in them, Six than the eight in the low. This so is a six spirt in the one and Chea for delight in the eight in the one and Chea for delight in the company of the company

is 900/01 1/5004-12-mercentaria.

1.00073/ii

1.00073/

There are Q digits (seem to Q - 1).

If the function is haste Q are possess in observer each of which napresents in observer each of which napresents properly of Q. The powers are calculate the properly of Q is the one; (10-Q)

If is the one; (10-Q)

If is question of Q is the head; (10-Q)

Of Q cabed by Q is the frequire; (10-Q)

Of Q cabed by Q is the frequire; (10-Q)

Party number in deather "One has been supply from 12g and the written "One has been supply from 12g and the written "One has been supply from 12g and the written and the loss of Q to the supply from 12g and the written the more of the supply from 12g and the written and the marker is worked out that 12g and 1

We cannot continue from here settets without incoving what Q is.

Lesson
Thus embet the lesson in Pure mitterslogs, how comes its applic fortunately when computing we need in these of the set of the

of the contrast enables us its work in any given base. The two bases must commonly used in comparing are thereby (base 2) and Heasthockman (base 15). Blanky is used because this is the base that a computer "works" in. As has been washinked before a computer cloud can be washinked before a computer cloud can be in one of two states at any given time. It can either the one of "Design stress."

note or two states at any given seria. In effect to en or off. These states, operanded mathematically by the eight and O. Thus, when designing a piece. MIXODE 4.1 any particular piece on each or who are grease is SOPEREY to Thus if we take eight piece, which thematically on, and then off a besommentation of them would be: in 5 (10/3/21) And by an amazing non-coincidence, in produce this exact pattern in the top left of the Schede in this mode we simply PCOS (Schede in this mode we simply PCOS (Scallon 2004 with 173). More of this much lab

Mater water we come onto graphics. In the is seed that for mathematical so we shall see in her mother little, where the seed of the seed o

It is clear that 'X-1111 is the highest momber precisible with four binary display, or bits (a, repible, smember?) and their \$6" is the Trightest momber possible with a single hose displict. Thus a byte, composed of eight bits on always to highest part of the precision of the single hose display. Thus a byte, composed byte hos has display whether their proposed of tour always to his family whether their proposed of tour byte his family whether their byte hi

N0019 - 92 N1167 - 90 PM N167191 - 930 by N0013101001 spills to N0010, N119, N1161 and N1001 N110, N1161 and N3001 N1101 - 98 N1001 - 98 N1001 - 98 N1001 - 98

The feeds or mether nestly into single and bridely proclose. They are now very easy empfer. Chrypy, a single precision warner can be held in one byte and thus enterested by up to eight sights in breary to to he be digit in hear and a clubble entition number can be represented by whether nine and elidere digits in brazy and either three or four digits in hex. And also finally, to the consistance of statistic feature parametery with societies did in the first population of the control of the co

6PP Direct Page RAM
2PF Entended Page R
600-SPF Tard Sores Mens
600-SPF Draphics Screen
Mensey
3800-SPFP Program & Variable
Strange
8000-SPFP Cartridge Memory
FT00-FTSF Input Output
FT00-FTSF SAM Control Bits

E's double precision number is attend at a costool for the high type the for each costool for the high type the for each costool for the high type the form added of the high type the second oblive of the high second the second of the high type the second of the high type the second of the high second of the

Revision

Proce that this most it anticle juriso has desired somewhat from the precious country has helped to slear up any projudent than the processing through the programming. From here enwered at the terminology and in the forced will be immobiled.

in minimal and the second of t

understand that has been write to the usual Drago and mapbe I can help. I must go now, there's

uel go now, there's someone at allow renting Geothey's room!

June 1996 Dragon User

Graphic Display Printing text on the graphics screen - all is revealed by Peter Whitten

CHRSt25 - recorrects the prophics

CHRS(3) - twee the graphics screen

The end result was "Graffay" which

Graphics There is no need to display the test

CLEARS key have been reducted to

CHREVE - disconnects the routine. The

CHRS(1) — stops the loutine from print

ervel cutine off. Text will be printed down CHRS(4) - reconnects the solved CHREVO -- causes the print to be Office CHRSess — causes the print to please by background when printed. Any graphics will

CHRS(7) - will cause the text to be ECRed with its background before printing

- DISCONNECT - PRINT OFF - PRINT ON - SCROLL OFF - SCROLL ON - PRINT 'OR' - PRINT II - PRINT (FOR: 14 - SET WHITE BROXGROUND - SET BLOCK

Table 1

This has the effect of producing a whole CHRS(II) — still the code for a back CHRS(14) — changes the background

Grafted comes complete with its own When the program runs it deplays each

IN THEY LORDER FOR "CRAFTEST" NEWTO 28 STRRT = 29800 AN FOR N=START TO FINISH STEP 6 DO PRINT NATIONAL SS TIME INPUT AS ZHO

70 FOR Mei TO LEN(As) STEP2 90 LeVAL("SH"+HIDS(RS,N,2)) 188 Z#Z+1 | NEAT 20 INPUT *

100 IMPUT T 130 IF TOPTT THEN PRINT'error - ENT ER LINE MGMIN"-GOTOSS 148 NEXT N



29712 : 2222321414140080m 45 23964 -00001616000000000 40 29972 :0001020408102040= 127 8773838773008687= 1129 -081808080888881C# - 0000000001C229284m KR 3300300000019-03= 0.0 888673340F73206E= 1069 12128F7334351905= 612 368073173418368= 629 98381F8F98838873= 967 22236 -2F2464646866888888 75 22244 : 3E28282082822210a 283 29952 -0000000000102030+ 122 2222221000000000 130 3F020408101010 - 141 27976 | 12 9204081818181616 | 141 27976 | 9808988817222210= 124 29984 | 222222102888888 | 138 29994 | 1022221022828439= 188 36888 | 0888888888888888888 1212819026199690 422 18860850925938073 949 38888 - 988888888888888888888 30024 1020000004001020+ 000147555454545454 494 00000000010000402* 30 38864 -10222284888888888 124 - 0200000001C222225+ 120 OSEC300372781F82% 724 30000 :1C22223E2222222 294 82222436000000000-3F29283C2828283E= 364 2020202030203090 30160 :1E2020202722221C+ 38168 | 828888888222222222

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June 1996 Dragon User 21

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The in's and out's of the Clear command on the Dragon explained by Pam D'Arcy unseen to us, the Oragon continues to serry Parameter 2 in the start address of Asso

Area A -- 1536 bytes reserved for Basic Interpretor workshapen Area C - Default four graphics pages of 1536 bytes each.

/zea D — Where our Basic programs are loaded into memory and the Area E - Default 200 bytes reserved for Basic simple strice Area F -- Default one byte reserved for machine code.

Table 1

MERCHY HAP AFTER CLEAN DEB. 30288 AFTER SALTING THE 32888-32199 32288-322A3 S corn

highest address down) as is needed.

strong ordered, existence. The high

To those who have suffered because of

Hardware Stack) becames the highest

Parameter 1 is the required benefit of Area E. The highest address used in est address - (parameter 1) + 1. The For example, if immediately after switch

The MARCHARY STACK rang starts of

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Dragon Answers needed is an PVE, command

dos and one disk three. What I THERE ARE basically byn things Firstle, as the Backup command uses all the NAM it blocks by

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508 WS-WS+KS.IF LENING CLEMPS) THEN SOR SSR REM Rest of senaram

A cheaper salution is to use an

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C Patience UNPOSTUMATELY, it is not a simple matter to rad the 9000's line drawing routine from

routine, and not in the Senio

written to work in any of the Busic

graphics modes, coing ran-

The season the BOW continue in

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keeps a backup of the directory

a mystery, newsrar, you can salvage a disc with a directory error simply by typing in the

CLEAR SOO 1,16.5.A5.09.5WHITE

Cyclic

Strings

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Expert's Arcade Arena

CHIAZMODO: LIVES 15644 12307, STAGE 12388 (1-6)

Yes, indeed, this is the HORACE CORS SALENO SHOCKTROOPER: LIVES Publication Coded Drawn

User". I stand a proud man. mality is there), who other an Simon't) and runs thus . .

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\$-0x8 — Make save that the

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Mystery Picture A



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and amulet Name Gary Bird

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